Geocaching Lesson Plan

Day 1: Preplan- create a list of locations students will go to write down the Latitude and Longitude of the spot. Example: Top of slide on playground, or inside the four square box, or the front doors of the school. Locations can not be indoors (devices will not work). Pre-determine the locations of the spots and write them down.

1. Discuss Latitude and Longitude
2. Brainpop on GPS: [www.brainpop.com](http://www.brainpop.com); username: dadesunset password: miamidade
3. <http://mygeomate.com/products/Home.action> and watch the 3 videos
4. Place students in groups of 3. Decide if you want all one grade level to one from each grade.
5. Pass out Geocache GPS device, the list of places to locate around the school, and a pencil/pen. A full page template is located on the next page.
6. Students will locate items around the school and give you the Latitude and Longitude.
7. Gather students together to see findings. If time allows, go outside to verify with students.
8. Make sure GPS devices are turned off.

Day 2: Preplan- deposit geocache boxes around the school and write down their location Latitude and Longitude. Go to word document and type in the Lat and Long of each box. After you have entered the 9 box locations on the Word Document, print off the list for each group .

1. Review how to use the GPS device. Draw a map of the school and overlay a box around it. Explain N and W coordinates.
2. Explain what you did in the preplan and that they will be locating the boxes. Remind them not to move the boxes….just sign the paper inside the box. Also explain the trick of not letting others know you found the box. \*Remind them that they should not try to find the boxes in their order since all of the other teams would be at that same location.

Day 3: Preplan- Same as Day 2. Let them know that the next time they do this, the winning group will win a belt loop (Maps and Compass)

1. Same as Day 2
2. Turn on from the top button and let load until you get 3 signal bars
3. Press the right button until you get a N symbol on the bottom right corner (not the hiker, smiley face or GC symbol)
4. Press the left button to get the North and West coordinates

**Geocaching Template**

**Day 1**

|  |  |  |
| --- | --- | --- |
| Location of Spot | Latitude | Longitude |
| 1. Example: Top of slide | n 33° 02.324' | w 96° 59.944' |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |
| 4. |  |  |
| 5. |  |  |
| 6. |  |  |
| 7. |  |  |
| 8. |  |  |
| 9. |  |  |